

through that space shall be in a subduplicate proportion of the forces, as Mathematicians will easily understand. And therefore if the space of activity of the refracting superficies of the Body be considered as such a space, the motion of the ray generated by the refracting force of the Body, during its passage through that space that is the motion BR must be in a subduplicate proportion of that refracting force: I say therefore that the square of the Line BR, and by consequence the refracting force of the Body is very nearly as the density of the same Body. For this will appear by the following Table, wherein the proportion of the Sines which measure the refraxions of several Bodies, the square of BR supposing CB an unite, the densities of the Bodies estimated by their specifick gravities, and their refractive power in respect of their densities are set down in several Columns.

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The refracting Bodies.	The Proportion of the Sines of incidence and refraction of yellow Light.	The Square of BR, to which the refracting force of the Body is proportionate.	The density and specifick gravity of the Body.	The refractive power of the Body in respect of its density.
A Pseudo-Topazius, being a natural, pellucid, brittle, hairy Stone, of a yellow Colour	23 to 14	1'699	4'27	3979
Air	3851 to 3850	0'00052	0'00125	4160
Glass of Antimony	17 to 9	2'568	5'28	4864
A Selenitis	61 to 41	1'213	2'252	5386
Glass vulgar	31 to 20	1'4025	2'58	5436
Crytal of the Rock	25 to 16	1'445	2'65	5450
Island Crytal	5 to 3	1'778	2'72	6536
Sal Gemma	17 to 11	1'388	2'143	6477
Alume	35 to 24	1'1267	1'714	6570
Borax	22 to 15	1'1511	1'714	6716
Niter	32 to 21	1'345	1'9	7079
Dantzick Vitriol	303 to 200	1'295	1'715	7551
Oyl of Vitriol	10 to 7	1'041	1'7	6124
Rain Water	529 to 396	0'7845	1.	7845
Gumm Arabic	31 to 21	1'179	1'375	8574
Spirit of Wine well rectified	100 to 73	0'8765	0'866	10121
Camphire	3 to 2	1'25	0'996	12551
Oyl Olive	22 to 15	1'1511	0'913	12607
Lintseed Oyl	40 to 27	1'1948	0'932	12819
Spirit of Turpentine	25 to 17	1'1626	0'874	13222
Ambar	14 to 9	1'42	1'04	13654
A Diamond	100 to 41	4'949	3'4	14556

The refraction of the Air in this Table is determined by that of the Atmosphere observed by Astronomers. For if Light pass through many refracting substances or mediums gradually denser and denser, and terminated

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